NTSC/PAL | 3CCD Digital Camcorder

SONY

CEV.FR

DVCAM™

Innovative camcorders for field and studio applications

DSR-570WS/570WSP

DSR-370/370P

For

Professional

Results

DSR-570WSPL/2

Caméscope d'épaule idéal pour les utilisations sur le terrain et en plateau. Equipé de 3 capteurs CCD Power HAD WS 2/3 pouces, commutable 16:9/4:3 et pilotable par CCU

Le caméscope DVCAM de référence

Depuis l'introduction du DVCAM en 1996, les caméscopes de pointe DVCAM ont toujours été considérés comme des produits de référence. Le DSR-570WSPL représente le nec plus ultra en matière de traitement numérique. Le nouveau traitement DSP TruEye et les capteurs CCD PowerHAD 16/9 situent la qualité des images à des niveaux de référence très élevés. En s'appuyant sur ce succès, Sony annonce maintenant la sortie des DSR-570WSPL et DSR-390P. Non seulement ces caméscopes combinent les excellentes performances du format DVCAM avec des fonctionnalités de caméras de pointe, mais ils permettent en outre des opérations de studio, grâce au contrôle CCU. Une interface Sony CCU 26 broches prend en charge la connexion soit à un CCU-D50P Sony pour une utilisation studio, soit à un magnétoscope portable, pour une application EFP de terrain haute qualité.

Le caméscope DSR-570WSPL est fourni sans optique

Nouvelles caractéristiques sur le DSR-570WSPL/2 (par rapport au modèle précédent DSR-570WSPL/1).

1. Convivialité du panneau latéral

2. Mode Film amélioré

Le DSR-570WSPL est fourni sans objectif.

Avantages

Une image de qualité exceptionnelle.
LSI (Digital Signal Processing) 10-bits A/D DSP
Le DSR-570WSPL intègre la dernière version de la technologie caméra Sony DSP 10-bits qui délivre une image parmi les meilleures sur le marché. Grâce à un traitement optimisé du signal numérique, la précision de l'image s'est encore améliorée. Le DSR-570WSPL incorpore également des fonctions caméra novatrices comme TruEye™ et DynaLatitude™.

Précision de l'image. Procédé TruEye.
Le traitement numérique du signal, TruEye, est un progrès technologique fondamental qui fait du DSR-570WSPL plus qu'un simple nouveau caméscope numérique. Ce traitement élimine pratiquement toute distorsion des couleurs, plus particulièrement dans des conditions d'éclairage extrêmes, à la différence des traitements numériques ou analogiques RGB classiques. En procédant au traitement de signaux de données vidéo à trois niveaux - luminosité, teinte et saturation - similaire au fonctionnement de l'œil humain, le traitement TruEye aide à reproduire les tons naturels de la peau.

Reproduction et traitement de la teinte chair Détail de la peau grâce à un détecteur automatique de zone active.
Le DSR-570WSPL donne au sujet un teint agréable, tout en conservant la netteté des autres zones. Le choix de la zone active Skin Detail se fait à l'aide du bouton SKIN SET situé sur le côté de la caméra. La gamme des couleurs et le niveau de détail de la zone active peuvent également être contrôlés.

Confort - Epaulière DynaFitTM
Le DSR-570WSPL est équipé d'une épaulière DynaFit qui s'adapte à l'épaule et évite à la caméra de glisser. Elle permet en outre de conserver un très bon équilibre et protège des points de compression douloureux, fréquents avec des épaulières plus rigides.

Netteté de la couleur - Réglage de température de couleur variable.
En plus de quatre filtres intégrés, le DSR-570WSPL possède une fonction de réglage par niveaux de la température couleur. Lorsque le filtre est réglé sur 3200 K, la température de couleur peut être sélectionnée, à l'aide du viseur, parmi 19 niveaux, dans une gamme allant de 2200 à 4300 K. De même, lorsque le filtre est positionné sur 5600 K, 13 niveaux sont disponibles (4600 à 12000 K). La couleur programmée peut être rappelée avec la position du filtre. Grâce à cette fonction, des effets «artistiques» (ajouter un effet «coucher de soleil» par exemple) sont facilement réalisables sans recours à un équipement

supplémentaire.

Format de cassette modulable - Compartiment cassette deux tailles.
Les deux tailles de cassettes mini et standard peuvent être utilisées. La durée maximum d'enregistrement du DSR-570WSPL est de 184 minutes avec une PDV-184ME (cassette standard). Il est également capable de lire le format DV grand public, autre gros avantage du format DVCAM.

Commutation 16/9 - 4/3.
Grâce à l'adoption du signal d'identification et du traitement signal numérique, le capteur du DSR-570WSPL peut fonctionner en modes 16/9 et 4/3, sans convertisseur. Il est de plus possible d'afficher les zones de sécurité 16/9 et 4/3 dans le viseur DXF-801 fourni, en filmant en mode 16/9.

Mode FilmLike amélioré
Le DSR-570WSPL/2 est doté d'un mode FilmLike amélioré (fichier de configuration).
Avec une courbe gamma modifiée sur ce mode, le DSR-570WSPL/2 reproduit des images encore plus proches du mode « cinéma » et est ainsi parfaitement adapté aux prises de vue de style cinématographique.

Conception conviviale du panneau latéral
En plus du battant en métal sur le panneau latéral, le battant individuel pour les commandes audio permet d'effectuer des réglages tout en dissimulant la zone des autres commandes de la caméra.

En outre, même lorsque le battant est fermé, l'utilisateur peut facilement voir l'état du commutateur VTR à travers la petite fenêtre. Cela est très utile en cas d'utilisation d'un appareil externe tel que l'unité compacte à disque dur DSR-DU1.

Une solution studio économique.
Fonctionnement CCU en multicore. En plus de la connexion avec des magnétoscopes portables, le connecteur 26 broches (en série sur le DSR-570WSPL), permet un contrôle en multicore à distance à partir d'une voie de commande Sony CCU-D50P. Cette unité, tout à fait abordable, fournit un contrôle à distance pour des opérations EFP ou studio, et peut être utilisée pour une large gamme d'applications.

Adaptateur intercom CA-370.
Le DSR-570WSPL offre des capacités d'intercom, avec l'adjonction d'un adaptateur CA-370 pour la communications entre les opérateurs caméra et le CCU-D50P. Le CA-370 permet aussi la connexion d'un casque DR-100 Sony, et donc de bénéficier des contrôles de volume audio associés.
La semelle en V, très pratique, assure une connexion rapide et équilibrée entre le caméscope et l'adaptateur.

Marqueur de zone de sécurité flexible.
Le DSR-570WSPL et le DSR-390P peuvent afficher un «marqueur de zone de sécurité» parmi un éventail de signaux d'identification sélectionnables. Cette fonction devient très commode lorsque l'on tourne en 16:9 pour une transmission en 4:3 et inversement. Ci-dessous les signaux d'identification possibles de la zone de sécurité selon que le caméscope fonctionne en 16/9 ou en 4/3 :
- En mode 16/9 : OFF, 4/3, 13/9, 14/9, 15/9.
- En mode 4/3 : OFF, 9/16, 13/9, 14/9, 15/9.

Adaptateur caméra pour récepteur HF.
Le CA-WR855 optionnel est un adaptateur permettant de supporter un récepteur Sony HF WRR-855. Il peut être rattaché directement au DSR-570WSPL par le connecteur en V, et ainsi procurer une liaison directe pour l'audio et l'alimentation. Une batterie lithium-ion peut également être reliée au panneau arrière du CA-WR855 grâce à la fixation en V, ce qui facilite le remplacement de la batterie, même quand le WRR-855 est monté.

Caractéristiques

Power HAD WS™ CCD.
Le DSR-570WSPL est équipé de 3 capteurs Power HAD WS IT CCD 2/3 pouce avec une très haute résolution de 570.000 pixels. Les CCD ayant été conçu à l'origine pour un format d'enregistrement en 16/9, des images haute qualité peuvent être obtenues dans ce mode. Le DSR-570WSPL dispose d'une haute sensibilité de F11 (à 2000 lux, 3200 K), un remarquable ratio signal/bruit de 61 dB et un très bas niveau de smear de -120 dB.

Circuit d'encodage perfectionné.
Le DSR-570WSPL réalise un encodage du numérique vers l'analogique dans bande passante de signal plus large que le

DSR-500WSPL. Ceci contribue aux résolutions horizontales de 850 lignes TV (mode 4/3) et 980 lignes (mode 16/9).

Hyper Gain (42 dB).
Hyper Gain est une fonction très utile qui permet de filmer dans l'obscurité en augmentant le gain électrique jusqu'à 36 dB. En utilisant le menu du viseur, vous pouvez établir le niveau de Hyper Gain à 42 dB maximum. Vous pouvez ainsi filmer avec seulement 0,25 lx. Il suffit d'actionner le bouton HYPER GAIN pour activer cette fonction.

Fichiers de SETUP de la caméra.
Lorsque l'interrupteur SETUP est en position FILE, vous pouvez utiliser jusqu'à huit fichiers SETUP de caméra par le biais du système de menus View-Finder (VF). Cinq fichiers sont programmés en série afin de correspondre aux conditions d'éclairage les plus courantes (STANDARD, HIGH SATURATION et FLUORESCENT notamment). Trois fichiers utilisateurs supplémentaires permettent à l'opérateur d'adapter la caméra à des situations de tournage particulières. Grâce à la fonction SetupNavi™ , les fichiers utilisateurs et les fichiers pré-programmés peuvent également être stockés dans la partie VAUX d'une bande DVCAM.

Interface sortie numérique avec i.LINK.
Le DSR-570WSPL est équipé d'une interface i.LINK 6 broches pour le signal de sortie numérique. Ceci offre la possibilité de faire un enregistrement de sauvegarde sur des magnétoscopes DV et DVCAM, avec seulement un câble i.LINK. Le câble i.LINK transporte simultanément des signaux audio/vidéo numériques et des signaux de contrôle. Si par exemple le DSR-570WSPL est connecté au magnétoscope de studio DVCAM de Sony, vous pouvez réaliser un montage cut simple, sans détérioration du signal.

Amplification et compression des noirs.
Le contraste dans la zone des noirs est facilement réglable avec la fonction «Black Stretch /Compress». «Black Stretch» accentue le contraste, alors que «Black Compress» intensifie l'obscurité.

Fonction «Freeze Mix».
La fonction «Freeze Mix» superpose une image enregistrée à celle de la caméra dans le viseur, ce qui autorise l'opérateur à cadrer ou repositionner un sujet, lorsqu'une prise doit être faite dans les même conditions que la précédente. Combiné à la fonction SetupLog™, faire une nouvelle prise devient un jeu d'enfant.

Des fonctionnalités utiles pour les opérations d'enregistrement.
Le DSR-570WSPL possède des fonctionnalités diverses qui facilitent l'enregistrement :
- interface magnétoscope 26 broches pour transférer les signaux de sortie de la caméra vers un enregistreur externe,
- connecteur 26 broches pour le contrôle des opérations par voie de commande,
- utilisation Pool Feed, carte entrée composite analogique optionnelle DSBK-501, permettant au caméscope de servir de magnétoscope,
- fonction recherche des points de montage,
- SetupLog, enregistrement automatique sur bande DVCAM, et pour chaque prise, enregistrement des données de réglage de la caméra.

Capacité de contrôle CCU.
- câble 300 m avec CCZ-A (26 broches) - 150 m pour Return Video et Genlock),
- deux sorties composites, une sortie Y/C et une sortie composantes (sélectionnable à partir de Y/R-Y/B-Y et R/G/B),
- Fonctions de contrôle :
IRIS (auto/manuel), Balance des blancs (auto/manuel/programmé), balance des noirs (auto/manuel/programmé), Gain Select (low/mid/high), gain R/B, R/B Pedestal, Master Pedestal, Sub-carrier Phase, Phase horizontale, Mode sortie (barre couleur/caméra), Knee Point (auto/manuel/programmé), niveau de détail, Tally/Intercom, sélection Shutter Speed, Clear Scan.
- alimentation lampe torche fournie par le CCU-M5A pour des applications telles que les interviews «on air».

Connecteur lampe torche.
Un éclairage optionnel peut être relié directement au DSR-570WSPL à partir d'un connecteur pour lampe torche. Le bouton «LIGHT» situé à l'avant droit du caméscope peut être actionné manuellement ou synchronisé avec la fonction «REC start ».

Viseur noir et blanc 1,5 pouces (DXF-801CE)
Le DSR-570WSPL est équipé du viseur CRT noir et blanc 1,5 pouce, conçu à l'origine pour le DSR-500WSP. Ce viseur léger haute résolution permet une mise au point manuelle afin d'optimiser la clarté de l'image. Il inclut des fonctionnalités innovantes comme un éclairage consacré aux bagues de diaph et de mise au point de l'objectif, pour des utilisations dans des environnements sombres (élevé / bas / éteint).

Accessoires Fournis

Adaptateur tripode

Micro externe

Epaulière

Accessoires optionnels

Format objectif 2/3 pouce	VCL-918BX
Carte entrée composite analogique	DSBK-501

Carte image index pour ClipLink	DSBK-301A
Lot de batteries lithium-ion rechargeables	BP-IL75 / BP-L40A
Mallette de transport (souple)	LC-DS300SFT
Mallette de transport (rigide)	LC-DS500
Chargeur pour batteries Li-ion et Ni-Mh	BC-M150 / M50
Récepteur microphone UHF sans câble	WRR-855B
Adaptateur caméra pour WRR-855B	CA-WR855
Pack batterie rechargeable Ni-Mh	BP-M50 / M100
Unité de commande de la caméra	CCU-D50P
Télécommande	RM-M7G
Casque	DR-100
Viseur noir et blanc 5 pouces	DXF-51
Adaptateur intercom pour opérations en studio	CA-370
Panneau de contrôle déporté	RCP-D50 / D51
Unité de disque dur vidéo	DSR-DU1
Adaptateur de caméra pour le DSR-DU1	CA-DU1

Spécifications techniques

Capteurs	3 CCD 2/3 pouce, transfert interligne
Optiques	Système prisme indice moyen F1.4
Image effective	980 x 582 (H x L)
Image totale	1038 x 594 (H x L)
Filtres intégrés	1:3200K, 2:5600K+1/8ND, 3:5600K, 4:5600K+1/64ND
Fixation objectif	2/3 pouce à baïonnette Sony
Résolution horizontale	mode 16/9 : 980 lignes TV
Résolution verticale	480 lignes YV (sans EVS)
Eclairage minimum	0.25Lux avec F1.4, Hypergain (42dB) 0.4 Lux avec F1.8, Hypergain (42dB)
Sensibilité	F11 à 2000 lx (3200 K, réflexion 3 200K, 89%) (caractéristique)
Rapport signal/bruit	61dB (caractéristique)
Distorsion géométrique	Au dessous du niveau mesurable
Format d 'enregistrement	DVCAM
Durée d'enregistrement et de lecture	Taille standard 184 min. (avec PDV-184ME)
Sélection gain	-3dB, 0dB, 3dB, 6dB, 9dB, 12dB, 18dB, 18dB+DPR, 24dB, 24dB+DPR, Hyper Gain (36dB ou dB sélectionnable) (DPR - Dual Pixel Readout).

A compact and powerful solution for both field and studio applications

Ever since their introduction, Sony DSR-500WS and DSR-300A Digital Camcorders have shown the many distinct advantages of using the DVCAM format in the field. Today, they are in service around the world in a variety of applications, from video journalism and newsgathering to event videography, field and studio production and much more.

Building on this success, Sony now announces the DSR-570WS*1 and DSR-370*2 – DVCAM camcorders that take the advantages of their predecessors further still.

As well as combining the excellent performance of the DVCAM format with a variety of advanced camera features, these camcorders also allow studio operation via CCU control. Both camcorders come equipped with the Sony 26-pin connector, which enables connection to either a Sony CCU-D50*3 for use in the studio, or to a portable VTR for high-quality EFP applications in the field.

Special attention to ergonomic design has resulted in extremely lightweight and compact units, providing maximum operational comfort when used on the shoulder or mounted on a tripod.

The DSR-570WS and DSR-370 herald a new level of quality, versatility and convenience for virtually any application, ranging from ENG to EFP and to multi-camera studio operations.

*1 "DSR-570WS" refers to the DSR-570WS (NTSC model) and DSR-570WSP (PAL model). *2 "DSR-370" refers to the DSR-370 (NTSC model) and DSR-370P (PAL model).
*3 "CCU-D50" refers to the CCU-D50 (NTSC model) and CCU-D50P (PAL model).

Lens, Synthesized Tuner and Battery are optional.

DSR-570WS

The DSR-570WS is the top-of-the-line DVCAM camcorder that shoots in both widescreen 16:9 and standard 4:3 aspect ratios. Equipped with three 2/3-inch type Power HAD WS™ CCDs, it achieves a high resolution of 850 TV lines in 4:3 mode or 800 TV lines in 16:9 mode. It delivers the superb picture quality required to support virtually any creative shooting environment.

DSR-370

The DSR-370 is a high-quality DVCAM camcorder designed specifically for 4:3 aspect ratio acquisition. With its three high-performance 1/2-inch type Power HAD™ CCDs, it boasts a high resolution of 800 TV lines and packs the same functionality as the DSR-570WS.

for the Studio

for Field Production and News

for Event Production

DSR-570WS & DSR-370 Innovative features

Two models designed to meet the stringent requirements of a variety of users

DSR-570WS/370

	DSR-570WS	DSR-370
Horizontal resolution	850 TV lines (4:3 mode)/800 TV lines (16:9 mode)	800 TV lines
CCD	Three 2/3-inch type CCDs (Power HAD WS CCD)	Three 1/2-inch type CCDs (Power HAD CCD)
Aspect ratio	16:9/4:3 switchable	4:3
Lens mount	2/3-inch type bayonet mount	1/2-inch type bayonet mount
Hyper Gain	36 dB or 42 dB	36 dB
Weight (Camcorder body only)	7 lb 15 oz (3.6 kg)	7 lb 4 oz (3.3 kg)

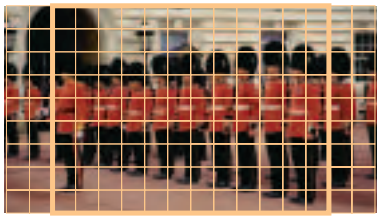
DSR-570WS features

2/3-inch type Power HAD WS CCD

The DSR-570WS is equipped with three 2/3-inch type Power HAD WS CCDs, each with a high density of 520,000 pixels (NTSC)/570,000 pixels (PAL). These CCDs were originally designed for the 16:9 aspect ratio, therefore high-quality images can be obtained in the 16:9 mode with virtually no image loss. A high sensitivity of F11 (at 2000 lx, 3200 K), remarkable signal-to-noise ratio of 63 dB* (NTSC)/61 dB*(PAL) and a low vertical smear level of -120 dB are also important specifications of this camcorder. * Typical

Switchable aspect ratio

Wide-aspect CCDs and digital signal processing allow the DSR-570WS to operate in both widescreen (16:9) and standard (4:3) aspect ratio modes. When shooting in 16:9 mode, it is also possible to display both 16:9 and 4:3 safety zones in the supplied DXF-801 viewfinder.



16:9 ID pulse

When shooting 16:9 images, the DSR-570WS automatically adds a wide-aspect ID pulse to the video output signal, indicating the aspect ratio of the picture. The 16:9 information is also recorded onto the Video Auxiliary (VAUX) area of a DVCAM tape, together with the video signals.

Encoding circuit

The DSR-570WS performs digital-to-analog encoding in a wide signal-bandwidth range. This contributes to its high horizontal resolutions of 850 TV lines (in 4:3 mode) and 800 TV lines (in 16:9 mode).

DSR-370 features

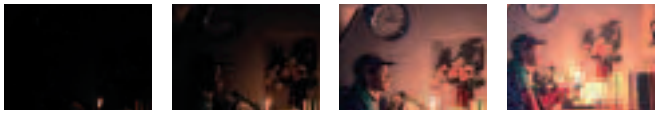
1/2-inch type Power HAD CCD

The DSR-370 is equipped with three 1/2-inch type Power HAD CCDs, each with a high density of 380,000 pixels (NTSC)/430,000 pixels (PAL). These allow for a high sensitivity of F11 (at 2000 lx, 3200 K) and a remarkable signal-to-noise ratio of 62 dB* (NTSC)/60 dB* (PAL). * Typical

DSR-570WS & DSR-370 Common features

Hyper Gain

At the flick of a switch, the Hyper Gain function enables shooting in the dark by drastically boosting the electronic gain. Using the Viewfinder (VF) Menu system, the Hyper Gain level can be set to a maximum of 42 dB for the DSR-570WS, or 36 dB for the DSR-370. This allows shooting in as low as 0.25 lx and 0.5 lx respectively.



0 dB 18 dB 36 dB 42 dB

Camera Setup Files

Moving the SETUP switch to the FILE position allows a total of eight Camera Setup Files to be viewed with the VF (Viewfinder) Menu system. Five factory-preset files – including Standard, High Saturation, Fluorescent, Film-Like and S-VHS/VHS Condition match the most common lighting conditions, and an additional three user files allow the customization of camera parameters to particular shooting situations. With the SetupNavi™ function, the user files and factory-preset files can also be stored on the VAUX portion of a DVCAM tape.

High-quality DVCAM recorder

DSR-570WS/370 Features

Delivering high-quality, efficient, DVCAM recording

DVCAM recording

The VTR sections of both the DSR-570WS and DSR-370 use the Sony DVCAM format, providing the video and audio quality, and the reliability necessary for professional use. For excellent picture quality, superb multi-generation capabilities and excellent production flexibility, these camcorders feature 8-bit component digital recording, with a 5:1 compression ratio and a sampling rate of 4:1:1.

The DSR-570WS and DSR-370 can use both mini (PDVM Series) and standard (PDV Series) cassettes. Using the standard PDV-184ME cassette, these camcorders provide a maximum recording time of 184 minutes. They can also play back the consumer DV format – another great advantage of DVCAM.

Digital output to external devices

The DSR-570W and DSR-370 are equipped with a 6-pin i.LINK™* interface (DV output only) for digital signal output. This enables recording to compatible DV and DVCAM VTRs using just one i.LINK cable, which carries digital video/audio and control signals simultaneously.

Connect the DSR-570WS or DSR-370 to the Sony DSR-70A/70AP Field Editor or DSR-2000/2000P Studio VTR**, for instance, and simple cut editing can be performed without signal deterioration. Or connect to a Sony DSR-50/50P portable DVCAM recorder, and control its Rec On/Off function remotely with the Rec On/Off button of the DSR-570WS or DSR-370.

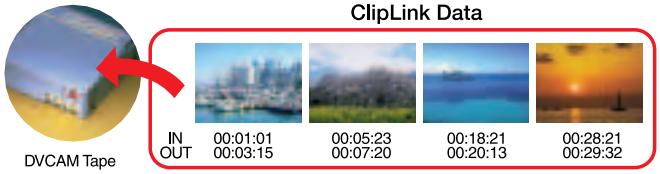
* i.LINK is a trademark of Sony used only to designate that a product contains an IEEE 1394 connector. All products with an i.LINK connector may not communicate with each other. Please confirm interoperability with third party manufacturers.

** For this application, an optional board should be installed in the DSR-70A/70AP or the DSR-2000/2000P.

ClipLink™ system

The ClipLink system is a comprehensive management system of shooting information, – "ClipLink data". Supporting this system, the DSR-570WS or DSR-370 records ClipLink data while shooting. In combination with Sony DVCAM VTRs and EditStation™ non-linear editing systems, this data is carried from acquisition to editing, enhancing the productivity and operating efficiency throughout the entire digital video production process.*

* Requires installation of the optional DSBK-301A board.



Freeze Mix function

The Freeze Mix function superimposes a previously recorded image on the viewfinder. This allows the operator to quickly and easily frame or reposition a subject when a shot must be taken from the same position or in the same framework as a previous take. Combined with the SetupLog™ function, this simplifies retakes.

Useful features for recording operation

The DSR-570WS and DSR-370 include a variety of features to simplify recording:

- **26-pin VTR interface –** feeds camera output signals to a portable recorder equipped with a 26-pin connector
- **Pool-Feed operation** with Optional DSBK-501 Analog Composite Input Board
- **Edit Search function –** for easy access to edit points
- **SetupLog –** automatically records camera-setting data for each shot onto the VAUX portion of a DVCAM tape

Digital-processing camera

DSR-570WS/370 Features

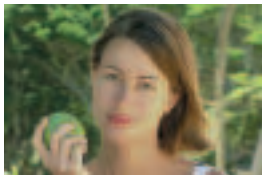
Capturing superior pictures with full Digital Signal Processing (DSP)

10-bit A/D DSP (Digital Signal Processing) LSI

The advanced Sony 10-bit DSP technology used in these camcorders delivers one of the best picture performances in the industry. Optimized digital-signal processing ensures excellent picture sharpness. And innovative camera features such as TruEye™ and DynaLatitude™ are also incorporated.

TruEye process

Sony's TruEye digital signal-processing technology virtually eliminates the hue distortion of conventional RGB analog or digital processing – particularly obvious in extreme lighting conditions. By processing video signal data at three levels – brightness, hue, and saturation – in a similar way to the human eye, the TruEye process assists in the reproduction of natural skin tones.

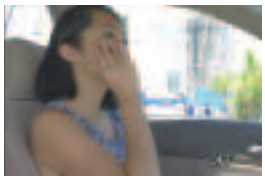


Conventional Camera

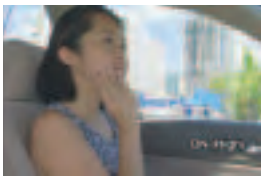
DSR-570WS (TruEye)

DynaLatitude function

DynaLatitude, a unique feature based on the TruEye process, minimizes video-level distortion. Based on video-signal histograms, the DynaLatitude function aligns the contrast of each pixel to eliminate imbalances such as the overexposure of background images.



Conventional Camera



DSR-570WS (DynaLatitude)

Skin Tone Detail with auto-detection of active area

The Skin Tone Detail function gives the subject a pleasing facial complexion, while maintaining the sharpness of other areas. The designated active area of Skin Tone Detail can be set with the "Skin Set" button on the camera's side panel. The color range of the active Skin Tone Detail area and Skin Detail level can also be controlled.

Black Stretch/Compress

Contrast in the black area of an image can be easily adjusted using the Black Stretch/Compress control function. Black Stretch emphasizes the contrast in dark areas, while Black Compress enhances or deepens darkness.

Convenient and comfortable

DSR-570WS/370 Features

Combining comfort, operational convenience and simplicity

Compact and lightweight

The DSR-570WS and DSR-370 are remarkably small, thanks to high-density circuit boards and a smaller recording head drum. They weigh just 8 lb 3 oz (3.7 kg) and 7 lb 11 oz (3.5 kg) respectively (camcorder only).

Low power consumption

The DSR-570WS and DSR-370 camera heads consume just 24 W and 20 W respectively. The BP-L90A lithium-ion battery provides the DSR-570WS with approximately 230 minutes of recording time, and the DSR-370 with approximately 290 minutes.

DynaFit™ shoulder pad

The DSR-570WS and DSR-370 are equipped with a DynaFit shoulder pad. It molds to any shoulder without slipping and maintains excellent balance, free from the painful pressure points common to harder shoulder pads.

Variable color temperature setting

In addition to four built-in filters, the DSR-570WS and DSR-370 enable small step adjustments to the color temperature. When the filter is set to 3200 K, color temperature can be chosen from 19 steps in the range from 2200 K to 4300 K using the viewfinder menu. Similarly, 13 steps are available, ranging from 4600 K to 12000 K, when the filter is set to 5600 K. The set color can be recalled with the filter position. Using this function, artistic painting effects, such as adding a "sunset", can be easily performed without any special equipment.

Dual zebra

The DSR-570WS has two types of zebra patterns – ZEBRA 1 and ZEBRA 2. ZEBRA 1 can be set within a range of 70 IRE to 90 IRE, in one-IRE steps. ZEBRA 2 provides a zebra pattern in any area with a video level of more than 100%.

Video Disk Unit DSR-DU1

The DSR-DU1 is a compact videodisk unit that mounts on the rear of the DSR-570WS and DSR-370 camcorders via its associated CA-DU1 Camera Adaptor. It contains a dual 40GB (for a total of 80GB) hard drive which provides up to three hours of DVCAM/DV stream recording - equivalent to the maximum recording time of a DVCAM tape. Via an i.LINK(DV) connection, the camera output of the compatible camcorder can be recorded to the hard drive of the DSR-DU1 in parallel with the recording made on the camcorder's tape. The DSR-DU1 is an extremely versatile device. When detached from the camcorder, it is very effective for field off-line logging or EDL creation, or as a source feeder machine for i.LINK equipped compatible nonlinear editors. The DSR-DU1 records DVCAM/DV stream Video and Audio as files. Through an i.LINK(DV) connection, these can be transferred to the media drive of an i.LINK interface equipped compatible nonlinear editor*1 at a maximum of twice normal speed*2. The Record start and stop time codes stored in the DSR-DU1 can be also transferred to the editor, eliminating the logging process common to nonlinear editing. The DSR-DU1 also provides the following features.

- **Excellent shock resistant mechanism**
- **Synchronize with Record Trigger commands from camcorders.**
- **525(NTSC)/625(PAL) Switchable recording*3**
- **Loop recording (8 seconds)**
- **Interval recording**

*1 Please contact your nearest Sony office or Authorized dealer for nonlinear products that support DV file transfer between the DSR-DU1

*2 The time required to transfer DV files from the DSR-DU1 may vary depending on the non linear editor used

*3 Signal conversion from 525(NTSC) to 625(PAL), or vice versa is not possible

Photo shows DSR-DU1, CA-DU1 and BP-L60A

Remote control system

With the 10-pin REMOTE connector, designed in accordance with the RS-232C standard, the DSR-570WS and DSR-370 can be directly controlled from an optional Sony RCP-TX7* Remote Control Panel.

* The RCP-TX7 cannot be used in combination with the CCU-D50.

Scene files from the RCP-TX7

With the optional RCP-TX7, up to 16 scene files can be created and stored. Almost all DSP-function and camera-setup parameters can be stored in a scene file, and the most suitable file for each shooting situation can be instantly recalled using the RCP-TX7's menu button.

Video Light Connector

Optional light equipment can be directly attached to the DSR-570WS and DSR-370 and powered from the video light connector. It can be turned on manually using the LIGHT switch on the front-right side of the camcorder, or synchronized with the REC start function.

DXF-801* Viewfinder

The DXF-801 is a 1.5-inch type black/white viewfinder supplied with the DSR-570WS and DSR-370, and includes the following features:

- **Automatic scan-size swapping between 16:9 and 4:3 (DSR-570WS only)**
- **VF Light (LED) –** lights up the iris ring area of the lens for operation in dark conditions (high/low/off)
- **DISPLAY switch –** turns off the character superimposition on the viewfinder
- **Tally lamp levels** (high/low/off)
- **Vertical and horizontal detail-level control** using a PEAKING potentiometer
- **Two red REC tally lamps**
- **TAKE tally lamp** for ClipLink operation, with a second tally lamp for CCU operations
- **Diecast aluminum body**
- **Wide range of diopter adjustments**

* The DXF-801 is available only as a service part.

Camera adaptor for wireless receiver

The optional CA-WR855 is an adaptor to hold a Sony WRR-855* Wireless Receiver. It can be directly attached to the DSR-570WS or DSR-370 via a V-shoe attachment, providing a direct connection interface for audio/power. A Lithium-ion battery can also be attached to the rear panel of the CA-WR855 via a V-shoe attachment, allowing easy battery replacement even when the WRR-855 is mounted. The DSR-570WS and DSR-370 can also accommodate the WRR-861 Wireless Receiver using the A-8278-057-A**.

Photo shows CA-WR855, WRR-855 and BP-L40A

* The 'WRR-855' includes both WRR-855A and WRR-855B.

** The A-8278-057-A is available as a service part.

Easy operation

DSR-570WS/370 Features

Ensuring the best possible results with simple operation

Assist functions

In response to increasing demands for more automatic functions in a professional camera, the DSR-570WS and DSR-370 support camera operators with:

- **Total Level Control System (TLCS) –** offering proper exposure automatically
- **EZ Focus* –** to make manual focusing easier
- **EZ Mode –** to set the camera to a standard position instantly
- **Auto-Tracing White Balance (ATW) –** to adjust white balance in real time
- **Flexible safety zone marker**

  The DSR-570WS and DSR-370 can display a 'safety zone marker' in a variety of selectable aspect ratios. This function comes in handy when shooting 16:9 material for 4:3 transmission or vice versa. The following shows the safety zone aspect ratios that are available when the camcorder is operated in 16:9 or 4:3 mode.

  In 16:9 mode: OFF, 4:3, 13:9, 14:9, 15:9 (DSR-570WS only)

  In 4:3 mode: OFF, 13:9, 14:9, 15:9, 16:9 (DSR-570WS and DSR-370)

* Not automatic focus

Integration into the studio

DSR-570WS/370 Features

A cost-effective studio solution

Multicore CCU operation

In addition to enabling connection with portable VTRs, the 26-pin connector which is standard on the DSR-570WS and DSR-370 allows remote control from a Sony CCU-D50 Multicore Camera Control Unit. This affordable unit provides sophisticated remote controls for EFP or studio operations, and can be used for a wide range of applications.

- **300m with CCZ-A cable (26-pin)** (150m for Return Video and Genlock)
- **Two composite outputs and one component output** (Y/R-Y/B-Y)
- **Control functions:**
  IRIS (auto/manual), White/Black Balance (auto/manual/preset), Gain Select (low/mid/high), R/B White, R/B Black, Master Black, Sub-carrier Phase, Horizontal Phase, Output Mode (color bar/camera), Knee Point (auto/manual), Detail Level, Tally/Intercom, Shutter Speed Selection, Clear Scan, ATW (ON/OFF)
- **Video light power supplied from the CCU-D50**
  When using a video light in CCU operations such as for on-air interviews, the power of the video light can be supplied from the CCU. Video lights up to 30 watts can be powered together with a 5-inch type viewfinder across a cable length of up to 150m. (300m with 1.5-inch type VF)

CCU-D50

26-pin connector

* The RM-M7G can be used in combination with the CCU-D50. The RCP-TX7 cannot be used in this configuration.

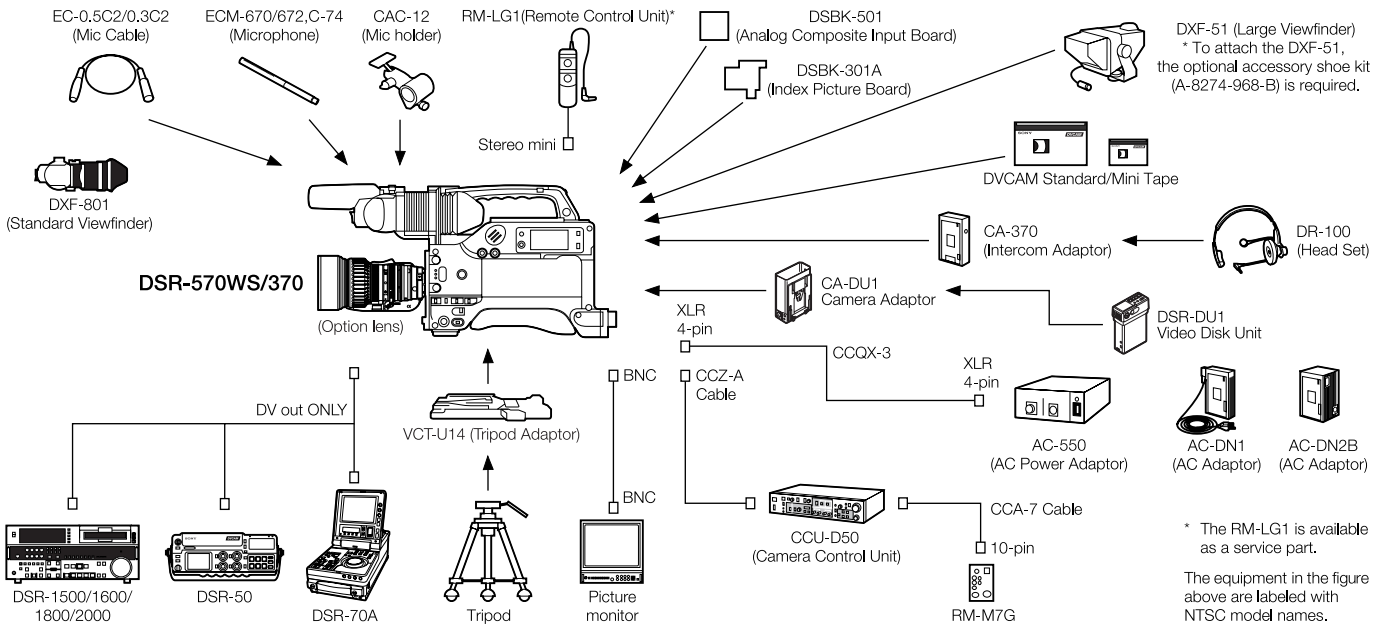
Intercom adaptor CA-370*

The DSR-570WS and DSR-370 offer intercom capability with the addition of an optional CA-370 Intercom adaptor, for communication between the camera operator and CCU-D50 operator. The CA-370 also allows connection of a Sony DR-100 headset and provides the associated audio volume controls. The convenient 'V-shoe mount' provides quick and stable connection between the camcorder and adaptor.

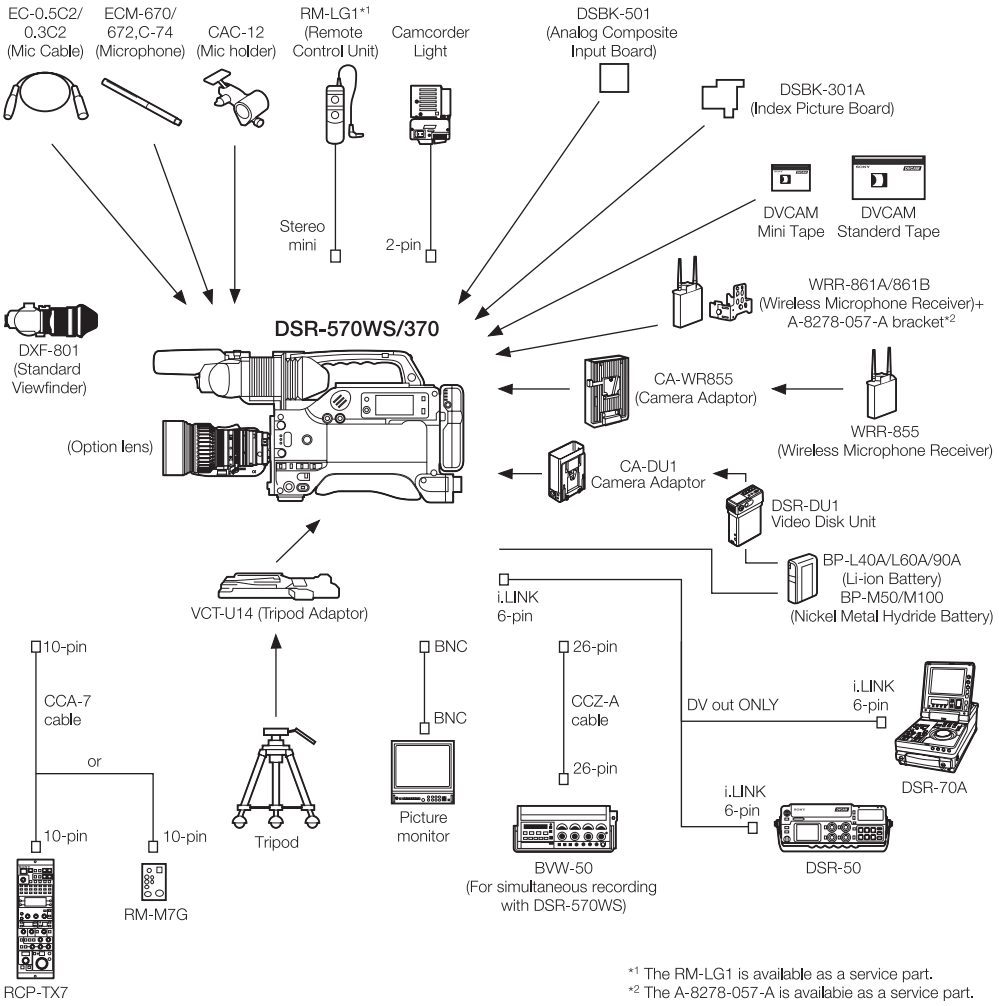
* The CA-370 cannot be used in combination with the CA-WR855.

Studio System with the CA-370 and DR-100

System configurations of studio application



System configurations of field application



*1 The RM-LG1 is available as a service part.
*2 The A-8278-057-A is availabie as a service part.

Carrying Cases

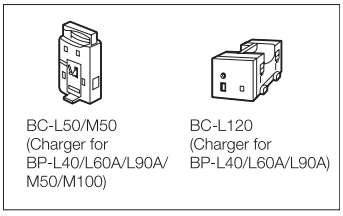
LC-300SZ
(Soft Carrying Case)

LC-424
(Hard Carrying Case)

Rain Cover

LCR-1
(Rain Cover)

Battery Chargers



BC-L50/M50 (Charger for BP-L40/L60A/L90A/ M50/M100)

BC-L120 (Charger for BP-L40/L60A/L90A)

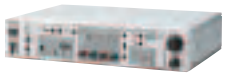
The equipment in the figure above are labeled with NTSC model names.

Product configurations

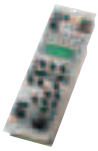
	DSR-570WSL (NTSC) or DSR-570WSPL (PAL)	DSR-370L (NTSC) or DSR-370PL (PAL)	DSR-370K2 (NTSC) or DSR-370PK2 (PAL)
Camcorder DSR-570WS (NTSC) or DSR-570WSP (PAL)	Yes	–	–
Camcorder DSR-370 (NTSC) or DSR-370P (PAL)	–	Yes	Yes
Viewfinder DXF-801* (with Microphone holder)	Yes	Yes	Yes
Tripod adaptor VCT-U14	Yes	Yes	Yes
External microphone	Yes	Yes	Yes
Shoulder strap	Yes	Yes	Yes
Zoom lens VCL-719BX	–	Option	–
Zoom lens VCL-716BX	–	Option	Yes

*Please note that the DXF-801 is available as a service part.

Optional accessories



CCU-D50/D50P
Camera Control Unit



RCP-TX7*1
Remote Control Panel
(The RCP-TX7 cannot be used in combination with the CCU-D50/D50P.)

RM-M7G
Handy Remote Control Unit
(The RM-M7G does not include the CCA-7 cable)

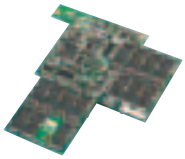
CA-370
The CA-370 includes a mount bracket (A-8274-968-B) to attach the DXF-51 to the DSR-570WS/370.

DR-100
Headset

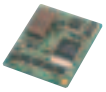
CA-WR855
Camera Adaptor for WRR-855A/855B

WRR-855A/855B
UHF Synthesized Diversity Tuner
(Wireless microphone receiver)

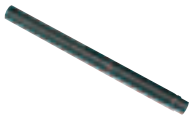
WRR-861A/861B*2
UHF Synthesized Diversity Tuner
(Wireless microphone receiver)



DSBK-301A
Index Picture Board



DSBK-501
Analog Composite Input Board



ECM-670/672
Electret Condenser Microphone

CAC-12
Microphone Holder

VCT-U14
Tripod Adaptor

DXF-51
5-inch type B/W Viewfinder (When it is attached to the DSR-570WS/370, a mount bracket (A-8274-968-B) included in the CA-370 is required.)

DSR-DU1
Video Disk Unit

CA-DU1
Camera Adaptor

BP-L40A*3/L60A/L90A
Rechargeable Li-ion Battery Pack

BP-M50/M100
Rechargeable Nickel Metal Hydride Battery Pack

BC-M50
Battery Charger for BP-L40A/L60A/L90A/M50/M100

BC-L50
Battery Charger for BP-L40A/L60A/L90A

BC-L120
Battery Charger for BP-L40A/L60A/L90A

AC-550
AC Adaptor

AC-DN1
AC Adaptor
(for operation under 38 W)

AC-DN2A
AC Adaptor
(for operation under 150 W)

LC-300SZ
Carrying Case (soft type)

LC-424
Carrying Case (hard type)

LCR-1
Rain Cover

W80Y-50
Wide Conversion Lens Adaptor from Canon (for VCL-919BX, VCL-719BX)

CCFD-3L
i.LINK cable (6-pin with lock*4 - 4-pin)

CCF-3L
i.LINK cable (6-pin with lock*4 - 6-pin)

*1 The RCP-TX7 includes CCA-7-5 cable.
*2 The A-8278-057-A bracket (service part) is required to mount on the DSR-570WS/370.
*3 The recommended use for the BP-L40A is 30 W or less.
*4 The connector on one end of the cable has a locking mechanism, and is attached to a i.LINK connector with the same locking mechanism, such as the DSR-570WS.

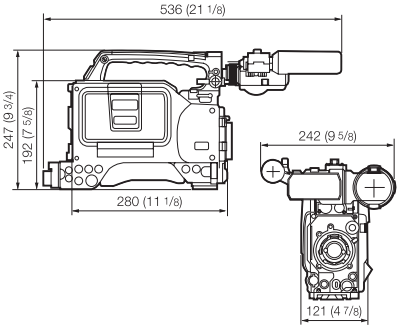
Specifications

General		DSR-570WS	DSR-570WSP	DSR-370	DSR-370P
Power requirements		DC 12 V (11 to 17 V)			
Power consumption		24 W (without VF), 26.1 W (with VF)		20 W (without VF), 22.1 W (with VF)	
Operating temperature		0 °C to 40 °C (32 °F to 104 °F)			
Storage temperature		-20 °C to 60 °C (-4 °F to 140 °F)			
Operating humidity		Less than 85%			
Storage humidity		Less than 90%			
Tape speed		28.193 mm/s	28.221 mm/s	28.193 mm/s	28.221 mm/s
Recording/Playback time	Standard size	184 min. with PDV184ME			
	Mini size	40 min. with PDVM40ME			
Fast forward/Rewind time	Standard size	Approx. 12 min. with PDV184ME			
	Mini size	Approx. 3 min. with PDVM40ME			
Continuous recording time		Approx. 70 min. with BP-L40/40A, 90 min. with BP-M50, 140 min. with BP-L60A. 200 min. with BP-M100, 230 min. with BP-L90A.		Approx. 80 min. with BP-L40/40A, 100 min. with BP-M50, 180 min. with BP-L60A, 230 min. with BP-M100, 290 min. with BP-L90A	
Weight		Approx. 14.1 lb 225.7 oz (6.4 kg) with VF, microphone, lens (VCL-919BX), battery (BP-L40A) and miniDV tape		Approx. 13.6 lb 218.6 oz (6.2 kg) with VF, microphone, lens (VCL-719BX), battery (BP-L40A) and miniDV tape	
Dimensions (w/h/d)		4 7/8 x 7 5/8 x 11 1/8 inches (121 x 192 x 280 mm) (without projections) 9 5/8 x 9 3/4 x 21 1/2 inches (242 x 247 x 547 mm) (with projections)		4 7/8 x 7 5/8 x 10 3/4 inches (121 x 192 x 270 mm) (without projections) 9 5/8 x 9 3/4 x 21 1/8 inches (242 x 247 x 536 mm) (with projections)	
Camera					
Image device		3-chip 2/3-inch type, Interline-Transfer CCD		3-chip 1/2-inch type, Interline-Transfer CCD	
Optics		F1.4 medium index prism system			
Effective picture elements		980 x 494 (H x V)	980 x 582 (H x V)	768 x 494 (H x V)	752 x 582 (H x V)
Total picture elements		1038 x 504 (H x V)	1038 x 594 (H x V)	811 x 508 (H x V)	795 x 596 (H x V)
Sensing area		9.6 mm x 5.4 mm		6.4 mm x 4.8 mm	
Built-in filters		1: 3200 K, 2: 5600 K+1/8 ND, 3: 5600 K, 4: 5600 K+1/64 ND			
Lens mount		Sony 2/3-inch type Bayonet mount		Sony 1/2-inch type Bayonet mount	
Signal system		NTSC color system	PAL color system	NTSC color system	PAL color system
Scanning system		2:1 interlaced, 525 lines, 60 fields/s	2:1 interlaced, 625 lines, 50 fields/s	2:1 interlaced, 525 lines, 60 fields/s	2:1 interlaced, 625 lines, 50 fields/s
Horizontal frequency		15.734 kHz	15.625 kHz	15.734 kHz	15.625 kHz
Vertical frequency		59.94 Hz	50 Hz	59.94 Hz	50 Hz
Sync system		Internal Sync, GENLOCK IN/VIDEO IN (VBS or BS) External Sync, VTR/CCU IN			
Horizontal resolution		16:9 mode : 800 TV lines (center), 4:3 mode : 850 TV lines (center)		800 TV lines (center)	
Vertical resolution		400 TV lines (without EVS), 450 TV lines (with EVS)	480 TV lines (without EVS), 530 TV lines (with EVS)	400 TV lines (without EVS), 450 TV lines (with EVS)	480 TV lines (without EVS), 530 TV lines (with EVS)
Minimum illumination		0.25 lx with F1.4, Hyper gain (42 dB) 0.4 lx with F1.8, Hyper gain (42 dB)		0.5 lx with F1.4, Hyper gain (36 dB) 0.8 lx with F1.8, Hyper gain (36 dB)	
Sensitivity		F11 at 2000 lx (3200 K, 89.9 % reflectance) (typical)		F11 at 2000 lx (3200 K, 89.9 % reflectance) (typical)	
Gain selection		-3 dB, 0 dB, 3 dB, 6 dB, 9 dB, 12 dB, 18 dB, 18 dB+DPR,* 24 dB, 24 dB+DPR, Hyper Gain (36 dB or 42 dB selectable)		-3 dB, 0 dB, 3 dB, 6 dB, 9 dB, 12 dB, 18 dB, 18 dB+DPR,* 24 dB, 24 dB+DPR, Hyper Gain (36 dB)	
Shutter speed selection		OFF, 1/100, 1/250, 1/500, 1/1000, 1/2000 (s)	OFF, 1/60, 1/250, 1/500, 1/1000, 1/2000 (s)	OFF, 1/100, 1/250, 1/500, 1/1000, 1/2000 (s)	OFF, 1/60, 1/250, 1/500, 1/1000, 1/2000 (s)
Clear scan selection		60.4 to 200.3 Hz	50.3 to 201.4 Hz	60.4 to 200.3 Hz	50.3 to 201.4 Hz
Signal-to-noise ratio		63 dB (typical)	61 dB (typical)	62 dB (typical)	60 dB (typical)
Registration		0.05% (all zones, without lens)			
Geometric distortion		Below measurable level			
VTR					
VIDEO PERFORMANCE					
Bandwidth	Luminance	30 Hz to 5.0 MHz ± 1.0 dB	25 Hz to 5.5 MHz +1.0/-2.0 dB	30 Hz to 5.0 MHz ± 1.0 dB	25 Hz to 5.5 MHz +1.0/-2.0 dB
	Chrominance	30 Hz to 1.5 MHz +1.0/-5.0 dB	25 Hz to 2.0 MHz +1.0/-2.0 dB	30 Hz to 1.5 MHz +1.0/-5.0 dB	25 Hz to 2.0 MHz +1.0/-2.0 dB
S/N ratio (luminance)		More than 55 dB			
K-factor (K2T, KPB)		Less than 2.0%			
Y/C delay		Less than 30 ns			
AUDIO PERFORMANCE					
Frequency response	48 KHz	20 Hz to 20 kHz +0.5/-1.0 dB			
	32 KHz	20 Hz to 14.5 KHz +0.5/-1.0 dB			
Dynamic range		More than 80 dB			
Distortion (THD)		Less than 0.08% (1 kHz reference level, 48 kHz)			
INPUT/OUTOUT					
Signal inputs	GENLOCK VIDEO IN	BNC, 1.0 Vp-p, 75 Ω			
	TC IN	BNC, 0.5 Vp-p to 18 Vp-p, 10 kΩ			
	EXT AUDIO CH-1/2	XLR 3-pin x 2 Female, -60 dBu, 3 kΩ-/+4 dBu, 10 kΩ			
	MIC IN	XLR 3-pin Female			
	ANALOG VIDEO IN	BNC, 1.0 Vp-p, 75 Ω (When the option board DSBK-501 is installed.)			
Signal outputs	VIDEO OUT	BNC, 1.0 Vp-p, sync negative, 75 Ω, 26-pin Male			
	VBS	1.0 Vp-p, sync negative			
	Y/R-Y/B-Y	Y: 1.0 Vp-p, sync negative R-Y/B-Y: 700 mVp-p	Y: 1.0 Vp-p, sync negative R-Y/B-Y: 525 mVp-p	Y: 1.0 Vp-p, sync negative R-Y/B-Y: 700 mVp-p	Y: 1.0 Vp-p, sync negative R-Y/B-Y: 525 mVp-p
	Y/C	Y: 1.0 Vp-p, sync negative C: 286 mVp-p (burst level)	Y: 1.0 Vp-p, sync negative C: 300 mVp-p (burst level)	Y: 1.0 Vp-p, sync negative C: 286 mVp-p (burst level)	Y: 1.0 Vp-p, sync negative C: 300 mVp-p (burst level)
	DV OUT	i.LINK, 6-pin IEEE1394-based			
	MONITOR OUT	BNC, 1.0 Vp-p, sync negative, 75 Ω			
	TC OUT	BNC, 1.0 Vp-p, 75 Ω			
	AUDIO CH-1/2	RCA pin, -10 dBu, 47 kΩ			
	S-VIDEO	DIN 4-pin, 1.0 Vp-p, 75 Ω			
Others	DC IN	XLR 4-pin, Male			
	DC OUT	4-pin, Female			
	BATTERY TERMINAL	5-pin			
	EARPHONE	Mini-jack			
	LIGHT OUT	2-pin Female			
	WRR OUT	7-pin			
	LENS	12-pin			
	VF	20-pin			
	REMOTE1	Stereo mini			
	REMOTE2	10-pin			

* DPR is equivalent to +6 dB gain up. ** The above VIDEO/AUDIO PERFORMANCE specifications were measured by playing back material recorded by each camcorder on a DSR-1800/1800P (via analog component out for video).
0 dBu = 0.775 Vrms

VCL-719BX (for DSR-370K1 pack)	
Zoom ratio	19:1
Focal length	6.7mm to 127mm
Zoom control	Servo/manual switchable
Iris control	Servo/manual switchable
Maximum relative aperture	F1.4 (6.7 to 89mm) to F2.0 (120mm)
Minimum object distance	Wide: 772 x 579mm, Tele: 42 x 32mm
Mount type	Sony 1/2-inch type bayonet mount
Weight	1.45kg (including lens hood)
Dimensions (WxHxD)	139.8 x 99.5 x 218.9mm (including objections)
VCL-716BX (for DSR-370K2 pack)	
Zoom ratio	16:1
Focal length	7.3mm to 117mm
Zoom control	Servo/manual switchable
Iris control	Servo/manual switchable
Maximum relative aperture	F1.9 (7.3 to 98mm) to F2.3 (117mm)
Minimum object distance	Wide: 823 x 617mm, Tele: 51 x 39mm
Mount type	Sony 1/2-inch type bayonet mount
Weight	1.2kg (including lens hood)
Dimensions (WxHxD)	123 x 102 x 205mm (including objections)

DSR-570WS/570WSP



DSR-370/370P